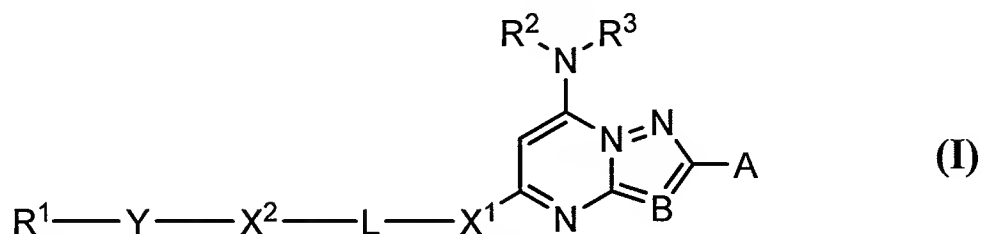


AMENDMENTS TO THE CLAIMS

1. (Currently amended) A compound of the following formula:



or a pharmaceutically acceptable salt or N-oxide thereof;

wherein

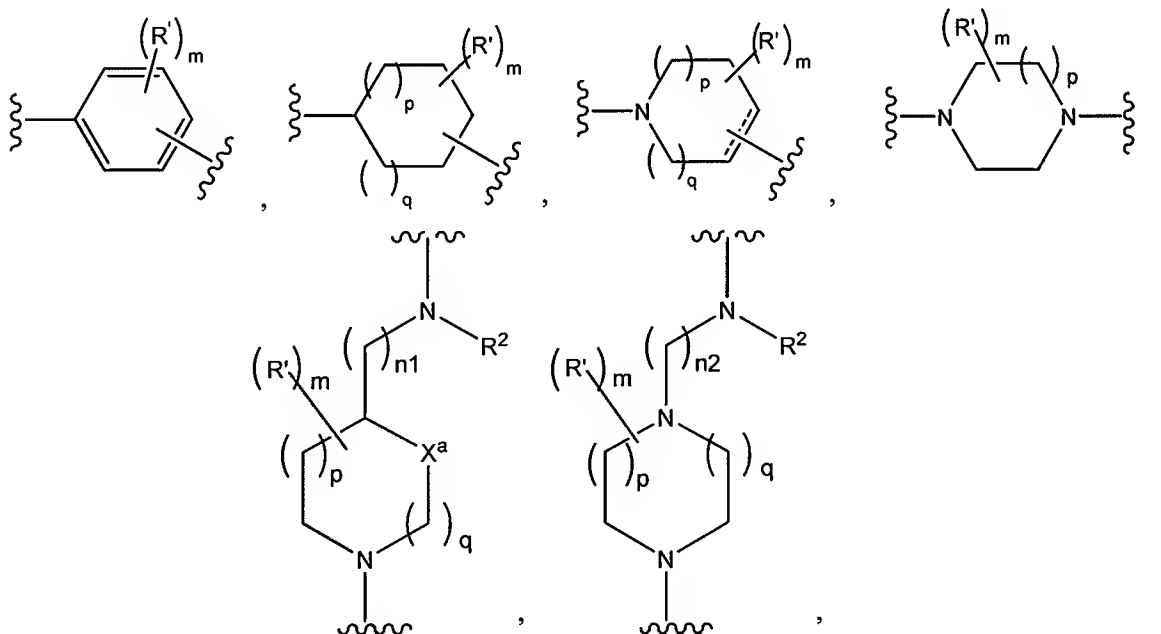
A is ~~aryl or heteroaryl~~;

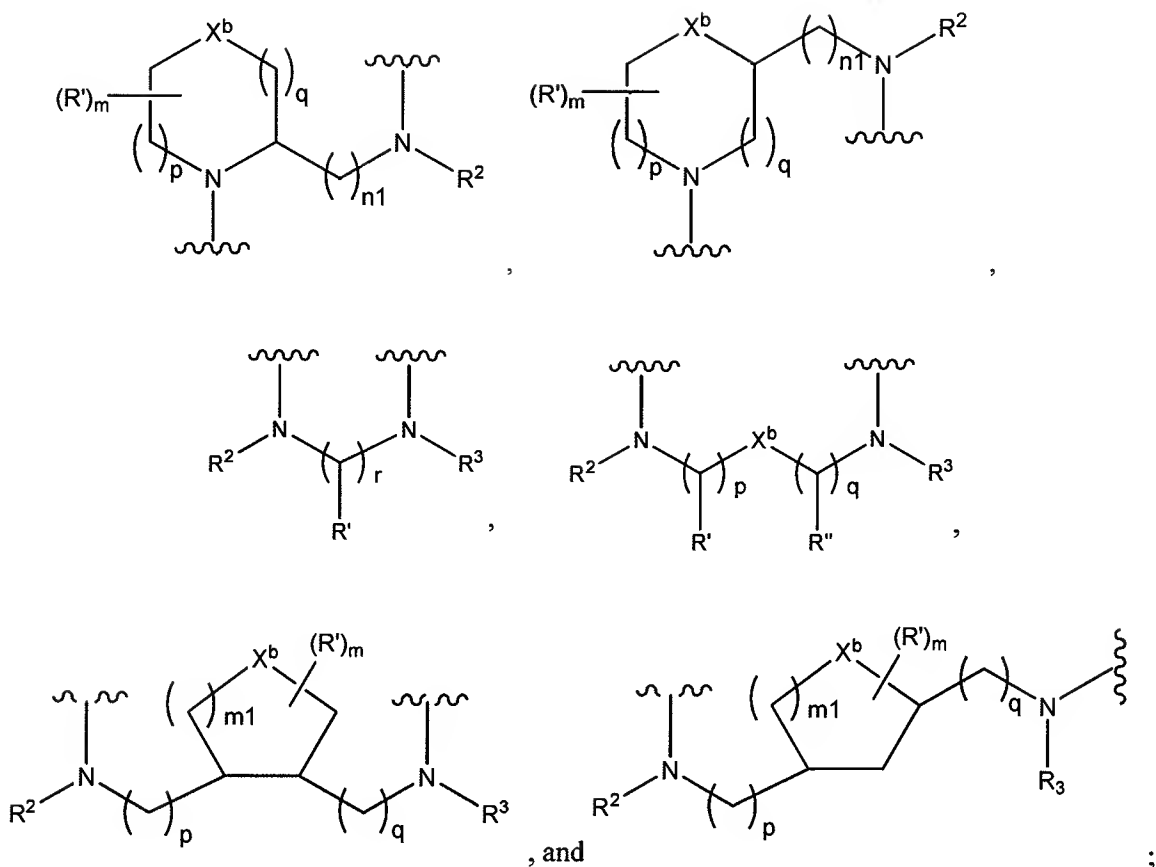
B is ~~N or CR²~~;

each of R² and R³ is independently hydrogen, alkyl, cycloalkyl, cycloalkenyl, aryl, aralkyl, heterocycloalkyl, heterocycloalkenyl, heteroaryl, or heteroaralkyl;

each of X¹ and X² is independently hydrogen, C₁₋₆ alkylene, C₂₋₆ alkenylene, C₂₋₆ alkynylene or a bond;

L is a bond or a linker selected from the group consisting of:





wherein:

each of R' and R", independently, is hydrogen, alkyl, alkenyl, alkynyl, alkoxy, acyl, halo, hydroxy, amino, nitro, oxo, thioxo, cyano, guanidino, amidino, carboxy, sulfo, sulfoxy, mercapto, alkylsulfanyl, alkylsulfinyl, alkylsulfonyl, aminocarbonyl, alkylcarbonylamino, alkylsulfonylamino, alkoxycarbonyl, alkylcarbonyloxy, urea, thiourea, sulfamoyl, sulfamide, carbamoyl, cycloalkyl, cycloalkyloxy, cycloalkylsulfanyl, heterocycloalkyl, heterocycloalkyloxy, heterocycloalkylsulfanyl, aryl, aryloxy, arylsulfanyl, aroyl, heteroaryl, heteroaryloxy, heteroarylsulfanyl, or heteroaroyl; provided that two adjacent R' groups can join together to form a 4- to 8-membered optionally substituted cyclic moiety;

X^a is -C(R²)(R³)-, -S-, -SO-, or -SO₂-;

X^b is -C(R²)(R³)-, -NR²-, -O-, -S-, -SO-, or -SO₂-;

each of p , q , m and m_1 , independently, is 0-3;

r is 1 or 2;

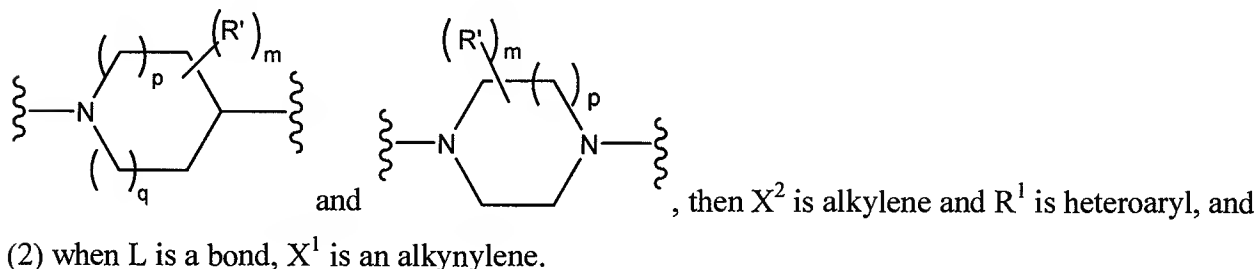
n1 is 0-6; and

n2 is 2-6;

Y is $-\text{C}(\text{R}^2)(\text{R}^3)-$, $-\text{O}-$, $-\text{S}-$, $-\text{SO}-$, $-\text{SO}_2-$, $-\text{CO}-$, $-\text{CO}_2-$, or a bond; and

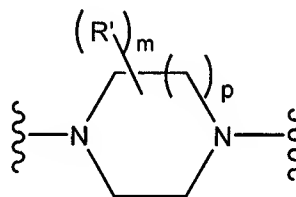
R^1 is alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, cycloalkenyl, cycloalkenylalkyl, aryl, aralkyl, heterocyclyl, or heterocycloalkyl;

provided that (1) when each of X^1 is a bond and L is a 4- to 6-membered saturated heterocyclic group selected from the group consisting of:



(2) when L is a bond, X^1 is an alkynylene.

2. (Original) The compound of claim 1, wherein X^1 is C_{2-6} alkynylene.



3. (Original) The compound of claim 2, wherein L is or a bond

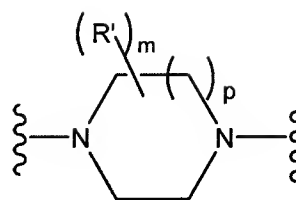
4. (Original) The compound of claim 2, wherein X^2 is C_{1-4} alkylene or a bond.

5. (Original) The compound of claim 2, wherein Y is a bond.

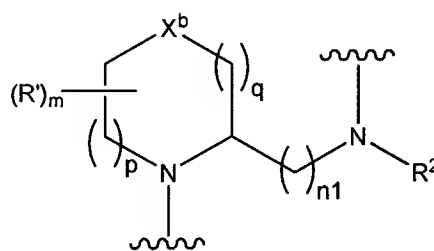
6. (Original) The compound of claim 2, wherein each of R^2 and R^3 is independently hydrogen or alkyl.

7. (Original) The compound of claim 2, wherein R^1 is alkyl, cycloalkyl, aryl, heterocycloalkyl, or heteroaryl.

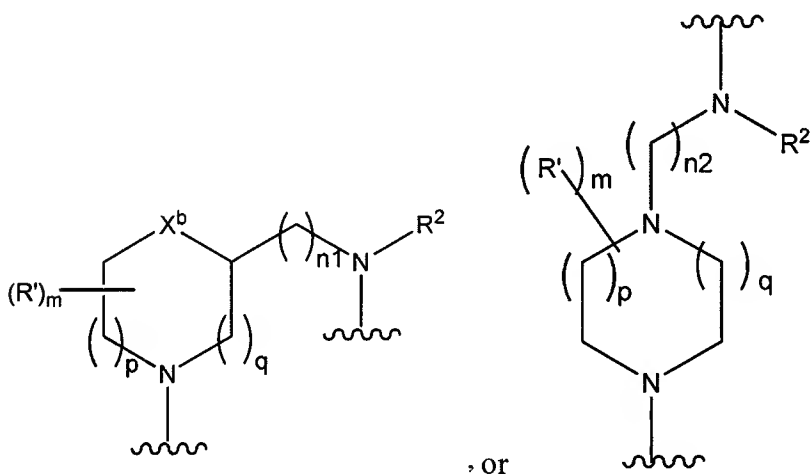
8. (Original) The compound of claim 7, wherein R^1 is optionally substituted with alkyl, halo, hydroxy or phenyl.



9. (Original) The compound of claim 2, wherein L is or a bond; X^2 is C1-4 alkylene or a bond; Y is a bond; each of R^2 and R^3 is independently hydrogen or alkyl; R^1 is alkyl, cycloalkyl, aryl, heterocycloalkyl, or heteroaryl, each of which being optionally substituted with alkyl, halo, hydroxy, or phenyl; A is heteroaryl; and B is N.



10. (Original) The compound of claim 1, wherein L is



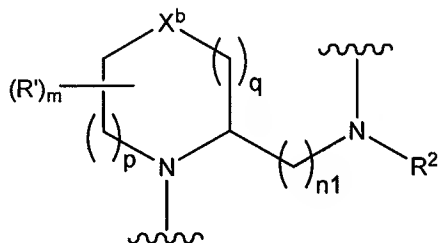
11. (Original) The compound of claim 10, wherein X^b is $-C(R^2)(R^3)-$ or $-NR^2-$.

12. (Original) The compound of claim 11, wherein X^b is $-C(R^2)(R^3)-$.

13. (Original) The compound of claim 12, wherein p is 0-1 and q is 1.

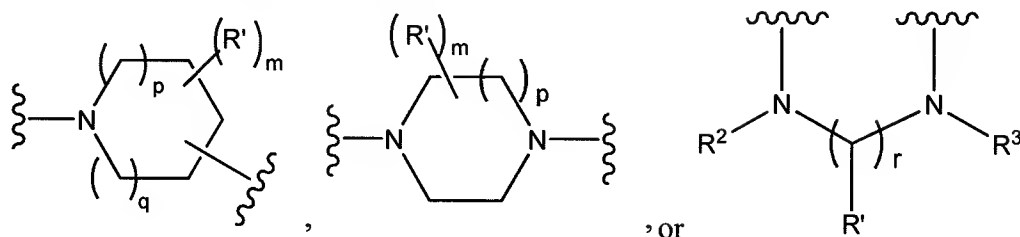
14. (Original) The compound of claim 13, wherein n_1 is 1-4 and n_2 is 2-4.

15. (Original) The compound of claim 14, wherein X^1 is C_{1-6} alkylene or a bond.
16. (Original) The compound of claim 14, wherein X^2 is C_{1-6} alkylene or a bond.
17. (Original) The compound of claim 14, wherein Y is $-SO_2-$, $-CO-$, $-CO_2-$, or a bond.
18. (Original) The compound of claim 14, wherein each of R^2 and R^3 is independently hydrogen or alkyl.
19. (Original) The compound of claim 14, wherein R^1 is aryl or heteroaryl, each of which being optionally substituted with alkyl, halo, hydroxy, or phenyl.
20. (Original) The compound of claim 14, wherein each of X^1 and X^2 is independently C_{1-6} alkylene or a bond; Y is $-SO_2-$, $-CO-$, $-CO_2-$, or a bond; each of R^2 and R^3 is independently hydrogen or alkyl; and R^1 is aryl or heteroaryl, each of which being optionally substituted with alkyl, halo, hydroxy, or phenyl.



21. (Original) The compound of claim 14, wherein L is $;$; X^1 is a bond, X^2 is C_{1-4} alkylene; Y is a bond; each of R^2 and R^3 is independently hydrogen or alkyl; R^1 is aryl or heteroaryl, each of which being optionally substituted with alkyl, halo, hydroxy, or phenyl; A is heteroaryl; and B is N.

22. (Original) The compound of claim 1, wherein L is



23. (Original) The compound of claim 22, wherein X^1 is C_{1-6} alkylene, C_{2-6} alkynylene, or a bond.

24. (Original) The compound of claim 22, wherein X^2 is C_{1-6} alkylene or a bond.

25. (Original) The compound of claim 22, wherein Y is $-SO_2-$, $-CO-$, $-CO_2-$, or a bond.

26. (Original) The compound of claim 22, wherein each of R^2 and R^3 is independently hydrogen or alkyl.

27. (Original) The compound of claim 22, wherein R^1 is alkyl, cycloalkyl, aryl, heterocycloalkyl, or heteroaryl.

28. (Original) The compound of claim 27, wherein R^1 is optionally substituted with alkyl, halo, hydroxy or phenyl.

29. (Original) The compound of claim 22, wherein X^1 is C_{1-6} alkylene, C_{2-6} alkynylene, or a bond, X^2 is C_{1-6} alkylene or a bond; Y is $-SO_2-$, $-CO-$, $-CO_2-$, or a bond; each of R^2 and R^3 is independently hydrogen or alkyl; R^1 is alkyl, cycloalkyl, aryl, heterocycloalkyl, or heteroaryl, each of which is being optionally substituted with alkyl, halo, hydroxy, or phenyl; A is heteroaryl; and B is N.

30. (Original) The compound of claim 1, said compound being

2-furan-2-yl-N⁵-[1-(5-methyl-isoxazol-3-ylmethyl)-pyrrolidin-2-ylmethyl]-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

2-furan-2-yl-N⁵-methyl-N⁵-[1-(5-methyl-isoxazol-3-ylmethyl)-pyrrolidin-2-ylmethyl]-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

N⁵-[1-(2,5-difluoro-benzyl)-pyrrolidin-2-ylmethyl]-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

5-{3-[4-(2,4-difluoro-phenyl)-piperaziny-1-yl]prop-1-ynyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;

5-{3-[4-(2,4-difluoro-phenyl)-piperaziny-1-yl]propyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;

5-{3-[4-(2,4-difluoro-phenyl)-piperaziny-1-yl]ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diamine;

N⁵-{2-[4-(2,4-difluoro-phenyl)-piperziny-1-yl]ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;

2-furan-2-yl-N⁵-(1-furan-2-ylmethyl-pyrrolidin-2-ylmethyl)-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

N⁵-[1-(2-fluorobenzyl)-pyrrolidin-2-ylmethyl]-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

2-furan-2-yl-N⁵-(1-pyridin-2-ylmethyl-pyrrolidin-2-ylmethyl)-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

2-furan-2-yl-N⁵-(1-pyridin-4-ylmethyl-pyrrolidin-2-ylmethyl)-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

2-furan-2-yl-N⁵-(1-(2,3,6-trifluorobenzyl)-pyrrolidin-2-ylmethyl)-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

N⁵-[1-(2-chloro-pyridin-4-ylmethyl)-pyrrolidin-2-ylmethyl]-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

1-(7-amino-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-5-ylethynyl)-cyclopentanol;

1-(7-amino-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-5-ylethynyl)-cyclohexanol;

2-furan-2-yl-N⁵-{2-[4-(2,4,6-trifluorophenyl)-piperaziny-1-yl]-ethyl}-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

N^5 -{2-[4-(2,3-difluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 2-furan-2-yl- N^5 -{2-[4-(3,4,5-trifluorophenyl)-piperazin-1-yl]-ethyl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 2-furan-2-yl- N^5 -{2-[4-(2,3,6-trifluorophenyl)-piperazin-1-yl]-ethyl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 N^5 -{2-[4-(3,5-difluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 N^5 -{2-[4-(2,6-difluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 N^5 -{2-[4-(2,5-difluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 N^5 -{2-[4-(2-fluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 N^5 -{2-[4-(4-fluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 N^5 -{2-[4-(3,5-dichlorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 2-furan-2-yl- N^5 -{2-[4-(2,3,4-trifluorophenyl)-piperazin-1-yl]-ethyl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 2-furan-2-yl- N^5 -{2-[4-(2,4,5-trifluorophenyl)-piperazin-1-yl]-ethyl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine; and
 N^5 -{2-[4-(4-chloro-2-fluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

31. (Original) The compound of claim 1, said compound being

2-furan-2-yl- N^5 -[1-(5-methyl-isoxazol-3-ylmethyl)-pyrrolidin-2-ylmethyl]-
 [1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
 2-furan-2-yl- N^5 -methyl- N^5 -[1-(5-methyl-isoxazol-3-ylmethyl)-pyrrolidin-2-ylmethyl]-
 [1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;

2-furan-2-yl-N⁵-(1-furan-2-ylmethyl-pyrrolidin-2-ylmethyl)-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
N⁵-[1-(2,5-difluoro-benzyl)-pyrrolidin-2-ylmethyl]-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
2-furan-2-yl-N⁵-(1-(2,3,6-trifluorobenzyl)-pyrrolidin-2-ylmethyl)-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
N⁵-[1-(2-chloro-pyridin-4-ylmethyl)-pyrrolidin-2-ylmethyl]-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
1-(7-amino-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-5-ylethynyl)-pentanol;
1-(7-amino-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-5-ylethynyl)-cyclohexanol;
5-(3-cyclohexyl-prop-1-ynyl)-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;
5-{3-[4-(2,4-difluoro-phenyl)-piperaziny-1-yl]prop-1-ynyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;
N⁵-{2-[4-(2,4-difluoro-phenyl)-piperziny-1-yl]ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;
2-furan-2-yl-N⁵-{2-[4-(2,4,6-trifluorophenyl)-piperaziny-1-yl]-ethyl}-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
N⁵-{2-[4-(2,3-difluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
2-furan-2-yl-N⁵-{2-[4-(2,3,6-trifluorophenyl)-piperazin-1-yl]-ethyl}-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
N⁵-{2-[4-(2-fluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
N⁵-{2-[4-(4-fluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
N⁵-{2-[4-(3,5-dichlorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine; and
2-furan-2-yl-N⁵-{2-[4-(2,3,4-trifluorophenyl)-piperazin-1-yl]-ethyl}-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine.

32. (Original) The compound of claim 1, said compound being

2-furan-2-yl-N⁵-[1-(5-methyl-isoxazol-3-ylmethyl)-pyrrolidin-2-ylmethyl]-[1,2,4]triazolo[1,5-a]pyridine-5,7-diamine;
2-furan-2-yl-N⁵-methyl-N⁵-[1-(5-methyl-isoxazol-3-ylmethyl)-pyrrolidin-2-ylmethyl]-[1,2,4]triazolo[1,5-a]pyridine-5,7-diamine;
N⁵-[1-(2,5-difluoro-benzyl)-pyrrolidin-2-ylmethyl]-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
5-(3-cyclohexyl-prop-1-ynyl)-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;
5-{3-[4-(2,4-difluoro-phenyl)-piperaziny-1-yl]prop-1-ynyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;
N⁵-{2-[4-(2,4-difluoro-phenyl)-piperziny-1-yl]ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidin-7-ylamine;
2-furan-2-yl-N⁵-{2-[4-(2,4,6-trifluorophenyl)-piperaziny-1-yl]-ethyl}-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
N⁵-{2-[4-(2-fluorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine;
N⁵-{2-[4-(3,5-dichlorophenyl)-piperazin-1-yl]-ethyl}-2-furan-2-yl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine; and
2-furan-2-yl-N⁵-{2-[4-(2,3,4-trifluorophenyl)-piperazin-1-yl]-ethyl-[1,2,4]triazolo[1,5-a]pyrimidine-5,7-diamine.

33. (Original) A pharmaceutical composition comprising a compound of claim 1 and a pharmaceutically acceptable carrier.
34. (Original) A pharmaceutical composition comprising a compound of claim 30 and a pharmaceutically acceptable carrier.
35. (Cancelled)
36. (Cancelled)
37. (Cancelled)

- 38. (Cancelled)
- 39. (Cancelled)
- 40. (Cancelled)
- 41. (Cancelled)
- 42. (Cancelled)
- 43. (Cancelled)
- 44. (Cancelled)
- 45. (Cancelled)
- 46. (Cancelled)
- 47. (New) The compound of claim 10, wherein X^1 is C_{1-6} alkylene, C_{2-6} alkynylene or a bond.
- 48. (New) The compound of claim 47, wherein R^2 is hydrogen or alkyl.
- 49. (New) The compound of claim 48, wherein X^2 is C_{1-6} alkylene or a bond.
- 50. (New) The compound of claim 49, wherein Y is $-SO_2-$, $-CO-$, $-CO_2-$, or a bond.
- 51. (New) The compound of claim 50, wherein R^1 is alkyl, cycloalkyl, aryl, heterocycloalkyl, or heteroaryl.

52. (New) The compound of claim 51, wherein R^1 is a substituted aryl (e.g., 2,4-difluorophenyl).
53. (New) The compound according to claim 10, wherein X^1 is C_{1-6} alkylene, C_{2-6} alkynylene or a bond; Y is $-SO_2-$, $-CO-$, $-CO_2-$, or a bond; R^1 is alkyl, cycloalkyl, aryl, heterocycloalkyl, or heteroaryl; and X^2 is C_{1-6} alkylene or a bond.